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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,354	11/07/2001	Angela Hui	AF01159	1692
29393	7590 06/22/2004		EXAMINER	
ESCHWEILER & ASSOCIATES, LLC			NGUYEN, KHIEM D	
NATIONAL CITY BANK BUILDING 629 EUCLID AVE., SUITE 1210				PAPER NUMBER
	D, OH 44114		2823	
			DATE MAILED: 06/22/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Advisory Action	10/045,354	HUI ET AL.				
navicery near.	Examin r	Art Unit)			
	Khiem D Nguyen	2823	Pr			
Th MAILING DATE of this communication appe	ars on the cover sheet with the	orrespondence add	ress			
THE REPLY FILED 04 June 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.						
PERIOD FOR REPLY [check either a) or b)]						
a) The period for reply expires <u>4</u> months from the mailing date of b) The period for reply expires on: (1) the mailing date of this Adv event, however, will the statutory period for reply expire later th ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).	isory Action, or (2) the date set forth in th an SIX MONTHS from the mailing date o FILED WITHIN TWO MONTHS OF THI	f the final rejection. E FINAL REJECTION. S	See MPEP			
Extensions of time may be obtained under 37 CFR 1.136(a). The dath have been filed is the date for purposes of determining the period of extensions CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three moterned patent term adjustment. See 37 CFR 1.704(b).	sion and the corresponding amount of the statutory period for reply originally set in	fee. The appropriate extended the final Office action; or	tension fee under (2) as set forth in			
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.						
2. The proposed amendment(s) will not be entered because:						
(a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);						
(b) ☐ they raise the issue of new matter (see Note below);						
(c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or						
(d) they present additional claims without canceling a corresponding number of finally rejected claims.						
NOTE:						
3. Applicant's reply has overcome the following reject	tion(s):					
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).						
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: <u>See Continuation Sheet</u> .						
6. The affidavit or exhibit will NOT be considered becaused by the Examiner in the final rejection.	cause it is not directed SOLELY	to issues which we	ere newly			
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we			and an			
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed: none.	·					
Claim(s) objected to: none						
Claim(s) rejected: 1-24 and 27.						
Claim(s) withdrawn from consideration: none.						
8. The proposed drawing correction filed on is	a) approved or b) disapp	proved by the Exam	niner.			
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s).					
10. Other:		W. DAVID COLL PRIMARY EXAL	EMAN MINER			

Application No.

Continuation of 5. does NOT place the application in condition for allowance because: Applicants contend that the reference Cheng t al., U.S. Patent 6,159,821 herein known as Cheng fails to teach or suggest coating the substrate with a sacrificial material that fills th gaps, and also fail to teach or suggest plasma etching to strip the sacrificial material and the hard mask substantially completely in a single plasma etch process. In response to Applicants contention that Cheng fails to teach or suggest coating the substrate with a sacrificial material that fills the gaps, and also fail to teach or suggest plasma etching to strip the sacrificial material and the hard mask substantially completely in a single plasma etch process, examiner respectfully disagree. Applicants are directed to col. 2, line 33 to col. 3, line 51 and FIGS. 1-11 wherein Cheng discloses coating the substrate 10 with a layer of oxide material 17 that fills the gaps 16, and plasma etching using a fluorine chemisty (CHF3/O2 or CH3F/O2) (col. 2, lines 54-64) to strip the sacrificial material and the hard mask 14 substantially completely in a single plasma etch process. Since the Applicants does not specify what is the suitable sacrificial materials being used to fill the gaps in the independent claims, examiner concluded that layer 17 of Cheng is a sacrificial material. Furthermore, as illustrated in FIG. 5 by the Applicants, the plasma etching process does not completely strip the sacrificial material in a single plasma etch process. The remaining sacrificial material 211 is left in the gaps 209 and later can be stripped with a solvent as illustrated in FIG. 6. Similarly, as illustrated by Cheng in FIGS. 4-5, the plasma etching process strip the sacrificial material 17 and th hard mask 14 substantially completely in a single plasma etch process. It is clearly shows that a large portion of the sacrifical material 17 and a comprehensive portion of the hard mask is stripped away, what left is a remaining sacrificial material portion 17 as illustrat d in FIG. 5. As the Applicants does not clearly specify whether or not both the top surface portion of the sacrificial material and the remaining sacrifical material are stripped completely in a single plasma etch process in the independent claims, Cheng anticipated the claimed invention. For these reasons, examiner holds the rejection proper.